



GE Power Systems

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Unit Profile

Choose a Site: MY STATION Choose a Unit: 1006 -- MY7FAST

GO

Unit / Outage Information				Connect any preferences in the data below - click update to effect your changes			
Next Outage Dates	Unit	Unit ID	Unit	Customer ID	MY Customer	Site ID	MY Station
MAJOR	02	02	2001	Unit #	1006	Serial #	MY7FAST
HOT GAS PATH				Output (kW)	150108 sp compressed	Heat Rate Btu/Kwh	9777 ISO Corrected
COMBUSTION				Availability (%)	0.0 source error	Reliability (%)	0.0 source GRAP
Operational Cycle	Combined Cycle			Op Hours	8000	Unit Starts	147
Loading Cycle	Mid-Range			COD	08 21 1994	Shipped Date	06/01/1992
Fuel Type	Liquid Natural Gas			Reading Date	09/01/1997	Frame Size	U71FA
Emission Control	Dry Low Nox 2.0			Unit Type	Gas Turbine	Control Type	

! Notes on Fleet Performance comparison figures (OUTPUT, HEATRATE, AVAILABILITY, and RELIABILITY)

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Identity Inaccuracies or Missing Information

Fig 1

107

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Turbine Optimizer

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0042221" EOE647450

200

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Turbine Optimizer

Choose a Site: MY STATION

Choose a Unit: MY7FAGT

go

Electricity Price
Cents/kWh: 6

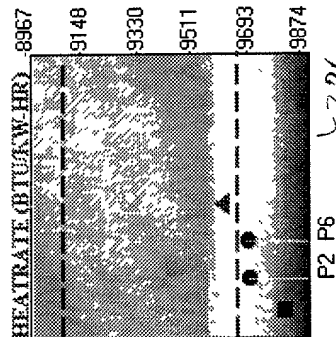
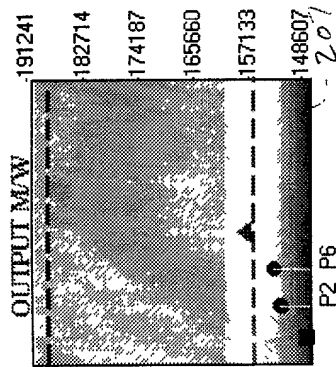
Fuel Cost
\$/MMBTU: 3

Annual Op. Hrs: 8000

Cost of Capital (%): 15

Tax Rate (%): 40

update



FLEET COMPARISON GRAPH



Availability of Reliability

Notes on Fleet Performance comparison figures

View	Impact	GE Reference Number	Value Package Name	Lead-Time (Weeks)	Heat Rate Output (%)	Estimate of Annual Revenue US\$	Present Net Value US\$	Estimate of Years Payback
P1	<input type="checkbox"/>	EV1071FA	Full Upgrade Turbine Optimizer I	32	4.24	\$2,272,450	\$4,600,000	6.6
P2	<input checked="" type="checkbox"/>	EV1071FA	Stage 1 Turbine Optimizer Package I	32	4.02	\$1,162,540	\$3,320,000	6.6
P3	<input type="checkbox"/>	EV1071FA	Stage 1 Turbine Optimizer Package IV	32	4.07	\$524,391	\$1,410,000	1.0
P4	<input type="checkbox"/>	EV1071FA	Stage 1 Turbine Optimizer Package III	32	4.54	\$951,262	\$2,520,000	0.9
P5	<input type="checkbox"/>	EV1071FA	Stage 1 Turbine Optimizer Package II	26	4.49	\$1,024,468	\$1,860,000	0.5
P6	<input checked="" type="checkbox"/>	EV1071FA	Stage 2 and 3 Turbine Optimizer Package I	36	2.97	\$1,492,490	\$4,550,000	10.4
P7	<input type="checkbox"/>	EV1071FA	Stage 2 and 3 Turbine Optimizer Package II	36	2.89	\$1,444,740	\$4,000,000	6.4

Fig 2

205

Update Performance
Impact Matrix

301

301 ~ 302 ~ 303

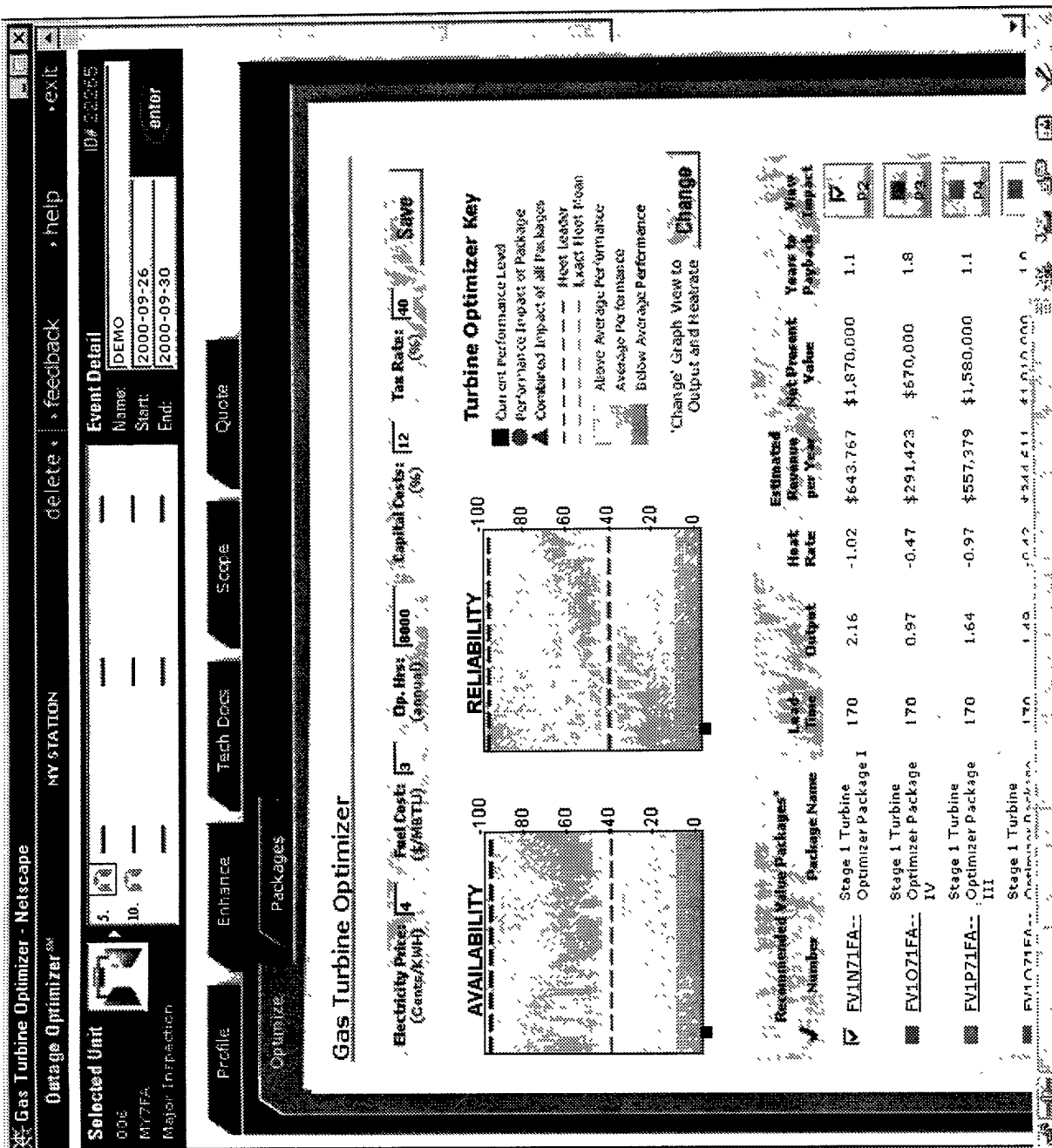
Customer Name	SN	Current Rating	Sig1	S1B, S1S	S1N, S1S	S1B, S1N	88 IGV	GDC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Sig2, Sig3	Performance Impact (parts only)
fcm	297031	Output	0.64	0.31	0.70	0.13	0.00	0.00	0.08	-0.03	0.09	0.59	1.30
	HR	9623	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77
Smith	297112	Output	0.54	0.21	0.70	0.03	0.00	0.00	0.08	-0.03	0.09	0.59	1.20
	HR	9461	-0.51	0.02	-0.55	0.36	0.00	0.00	0.02	0.07	0.03	-0.20	-0.77

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306 {

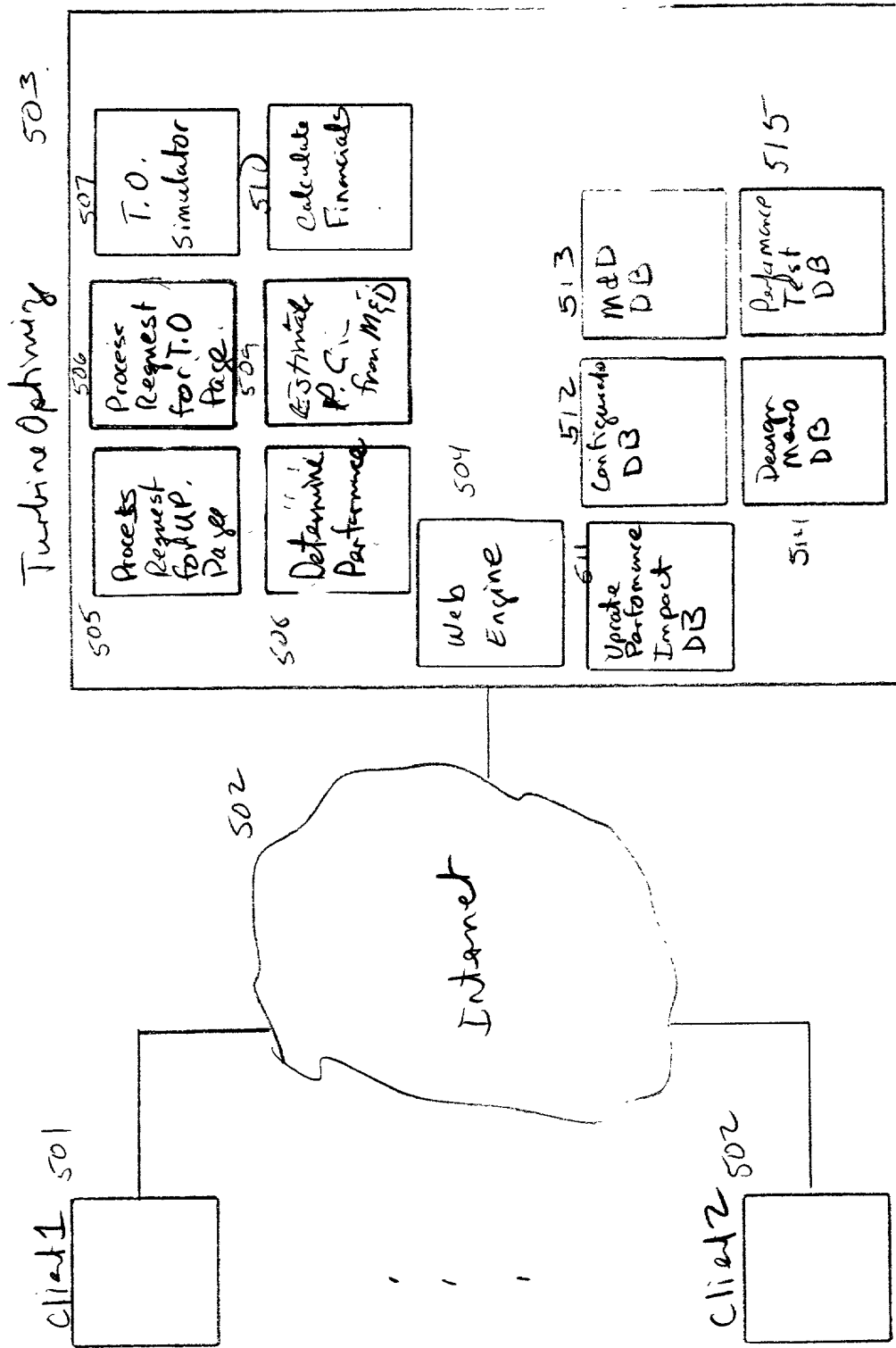
307

Sum Parts+ Tt	Cycle Deck Run	FV1B	FV1P	FV1T	FV1U	FV1V	FV1W	FV1N	FV1Q	FV1Q	FV4B	FV4P	FV4T	FV4U	FV4V	FV4W	FV4N	FV4Q
0 1.3	1.3	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77	-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 1.3	1.2	0.313	0.594	0.086	0.0799	-0.033	0.639	0.6993	0.125	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
0 -0.77	-0.77	0.02	-0.198	0.026	0.02	0.0733	-0.506	-0.553	0.363	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Fig 3



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上


$$\frac{1}{s} \frac{1}{s^2}$$

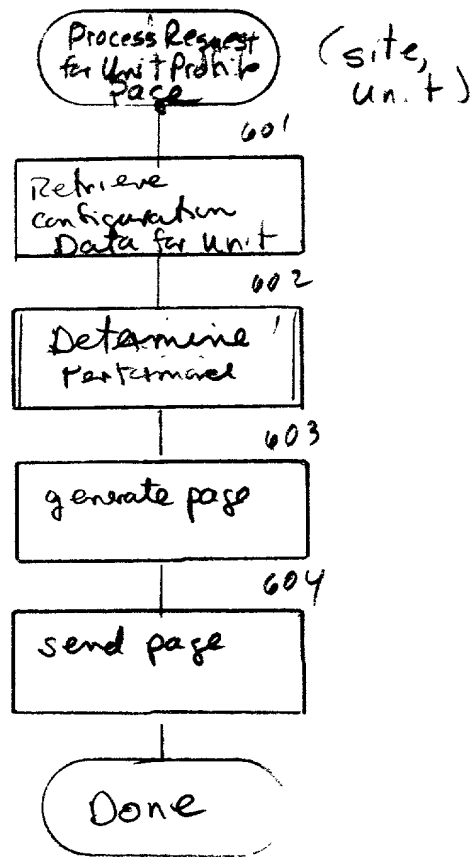
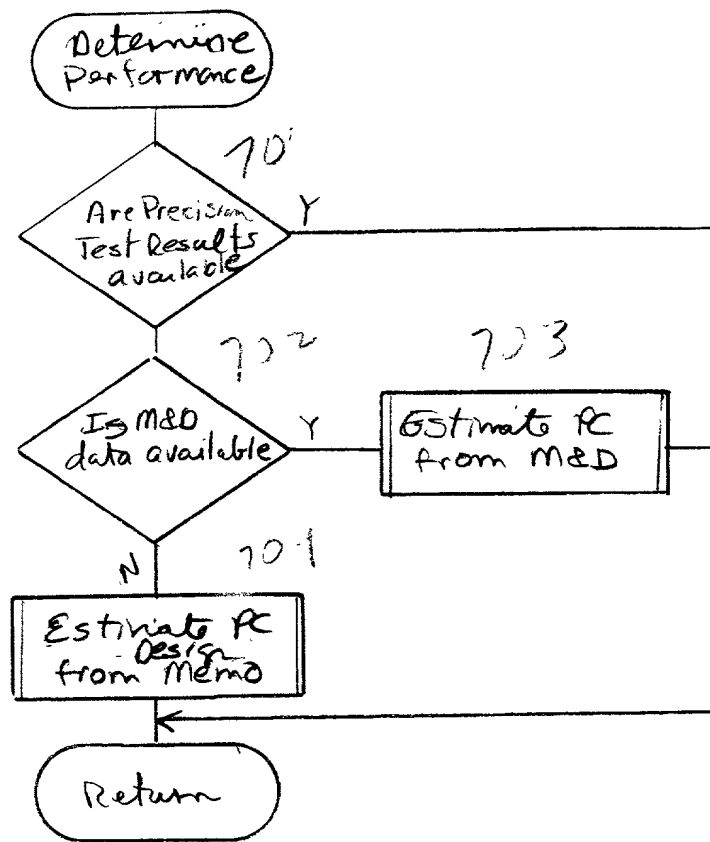
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Fig 6



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Parameter	Unit	Value	Standard Error	t-Statistic	p-Value
Intercept		0.0000	0.0000	0.0000	0.0000
Age	Years	0.0000	0.0000	0.0000	0.0000
Age squared	Years squared	0.0000	0.0000	0.0000	0.0000
Age cubed	Years cubed	0.0000	0.0000	0.0000	0.0000
Age quart	Years quart	0.0000	0.0000	0.0000	0.0000
Age quint	Years quint	0.0000	0.0000	0.0000	0.0000
Age sext	Years sext	0.0000	0.0000	0.0000	0.0000
Age sept	Years sept	0.0000	0.0000	0.0000	0.0000
Age oct	Years oct	0.0000	0.0000	0.0000	0.0000
Age non	Years non	0.0000	0.0000	0.0000	0.0000
Age dec	Years dec	0.0000	0.0000	0.0000	0.0000
Age ele	Years ele	0.0000	0.0000	0.0000	0.0000
Age twel	Years twel	0.0000	0.0000	0.0000	0.0000
Age thir	Years thir	0.0000	0.0000	0.0000	0.0000
Age four	Years four	0.0000	0.0000	0.0000	0.0000
Age fiv	Years fiv	0.0000	0.0000	0.0000	0.0000
Age six	Years six	0.0000	0.0000	0.0000	0.0000
Age sev	Years sev	0.0000	0.0000	0.0000	0.0000
Age eigh	Years eigh	0.0000	0.0000	0.0000	0.0000
Age nine	Years nine	0.0000	0.0000	0.0000	0.0000
Age ten	Years ten	0.0000	0.0000	0.0000	0.0000
Age elev	Years elev	0.0000	0.0000	0.0000	0.0000
Age twel	Years twel	0.0000	0.0000	0.0000	0.0000
Age thir	Years thir	0.0000	0.0000	0.0000	0.0000
Age four	Years four	0.0000	0.0000	0.0000	0.0000
Age fiv	Years fiv	0.0000	0.0000	0.0000	0.0000
Age six	Years six	0.0000	0.0000	0.0000	0.0000
Age sev	Years sev	0.0000	0.0000	0.0000	0.0000
Age eigh	Years eigh	0.0000	0.0000	0.0000	0.0000
Age nine	Years nine	0.0000	0.0000	0.0000	0.0000
Age ten	Years ten	0.0000	0.0000	0.0000	0.0000
Age elev	Years elev	0.0000	0.0000	0.0000	0.0000
Age twel	Years twel	0.0000	0.0000	0.0000	0.0000
Age thir	Years thir	0.0000	0.0000	0.0000	0.0000
Age four	Years four	0.0000	0.0000	0.0000	0.0000
Age fiv	Years fiv	0.0000	0.0000	0.0000	0.0000
Age six	Years six	0.0000	0.0000	0.0000	0.0000
Age sev	Years sev	0.0000	0.0000	0.0000	0.0000
Age eigh	Years eigh	0.0000	0.0000	0.0000	0.0000
Age nine	Years nine	0.0000	0.0000	0.0000	0.0000
Age ten	Years ten	0.0000	0.0000	0.0000	0.0000
Age elev	Years elev	0.0000	0.0000	0.0000	0.0000
Age twel	Years twel	0.0000	0.0000	0.0000	0.0000
Age thir	Years thir	0.0000	0.0000	0.0000	0.0000
Age four	Years four	0.0000	0.0000	0.0000	0.0000
Age fiv	Years fiv	0.0000	0.0000	0.0000	0.0000
Age six	Years six	0.0000	0.0000	0.0000	0.0000
Age sev	Years sev	0.0000	0.0000	0.0000	0.0000
Age eigh	Years eigh	0.0000	0.0000	0.0000	0.0000
Age nine	Years nine	0.0000	0.0000	0.0000	0.0000
Age ten	Years ten	0.0000	0.0000	0.0000	0.0000
Age elev	Years elev	0.0000	0.0000	0.0000	0.0000
Age twel	Years twel	0.0000	0.0000	0.0000	0.0000
Age thir	Years thir	0.0000	0.0000	0.0000	0.0000
Age four	Years four	0.0000	0.0000	0.0000	0.0000
Age fiv	Years fiv	0.0000	0.0000	0.0000	0.0000
Age six	Years six				

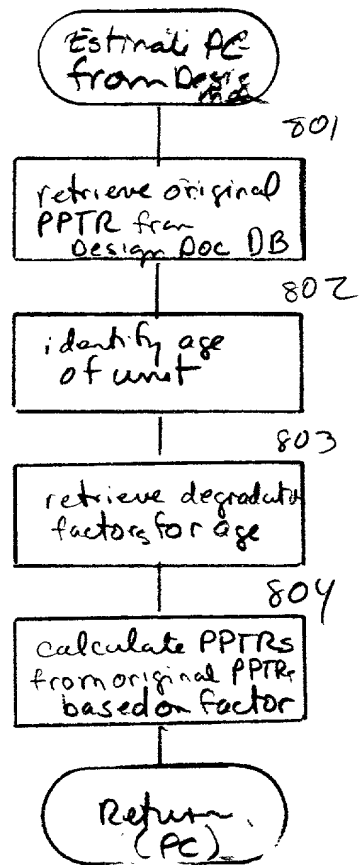
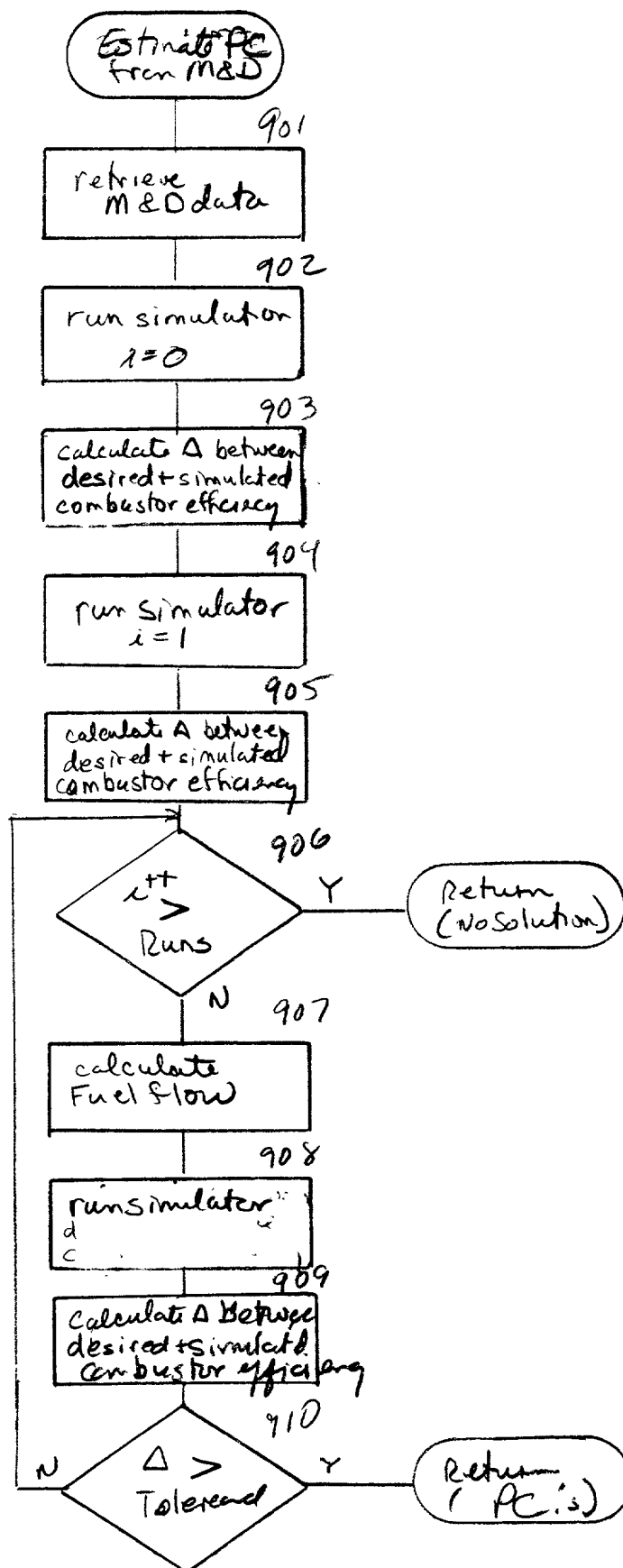


Fig 8



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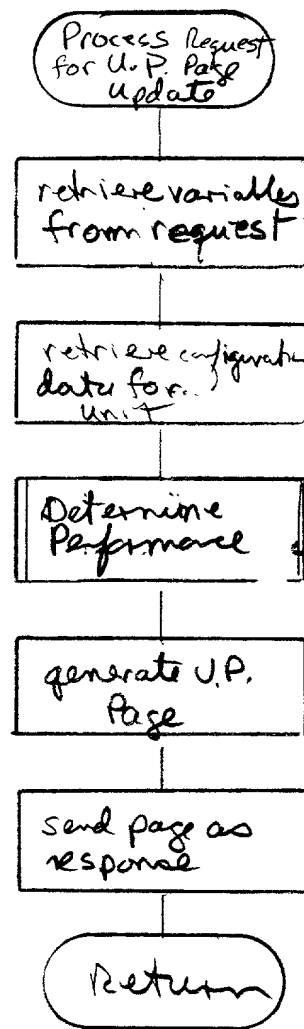


Fig 10

Process Request
for T.O. page

1101

retrieve
default financial
criteria

1102

Generate Turbine
Optimizer Page

1103

Send T.O. Page
as response

Complete

Fig 11

Generate
Turbine Optimize
Page

